



STATE RESOURCES for EVs & Electric Vehicle Supply Equipment in Your Jurisdiction

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Municipal Day Workshop
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Session Overview

Municipal Roles

State EVSE Incentives and Investments

State EV Incentives

Federal Incentives

EV Regulations

Questions

Municipal Roles | Lead by Example

Municipal Fleets

- Consider EV models when replacing fleet vehicles
- ZEV or “EV First” Fleet Policy
- Fleet Improvement Plan

Municipal Parking

- Make parking spaces in municipal lots available for charging
 - Lease spaces to 3rd party service providers
 - Install and own charging stations

Employee Support

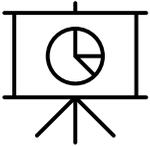
- Provide access to charging infrastructure at work

Procurement/Purchasing

- Preferred purchasing policy



Municipal Roles | Planning



Existing and Future Conditions

What types and how many EVs are registered now? Where is there already charging? Who is it serving?
Whose charging needs are not met by charging?



Identify key stakeholders....

Parking owners
Large employers
Residents
Utility
Energy Committee

...and talk with them about

Use Cases - match parking dwell times to charging type

Business Models - who can own and operate now, and in the future?

Equity - where charging is needed to meet the needs of those with the least access

Municipal Roles | Enable EV Charging

[ACCD Guidance and model bylaw language](#) (link)

DEFINE IT

- **Define** common terms related to **EV charging** in your bylaws
- *e.g. Electric vehicle supply equipment, electric vehicles, AC charge levels, DC charge levels*

ALLOW IT

- Allow charging stations as an **accessory use** in **all parking**
- Principal use may be appropriate in some cases, as in fueling or service stations

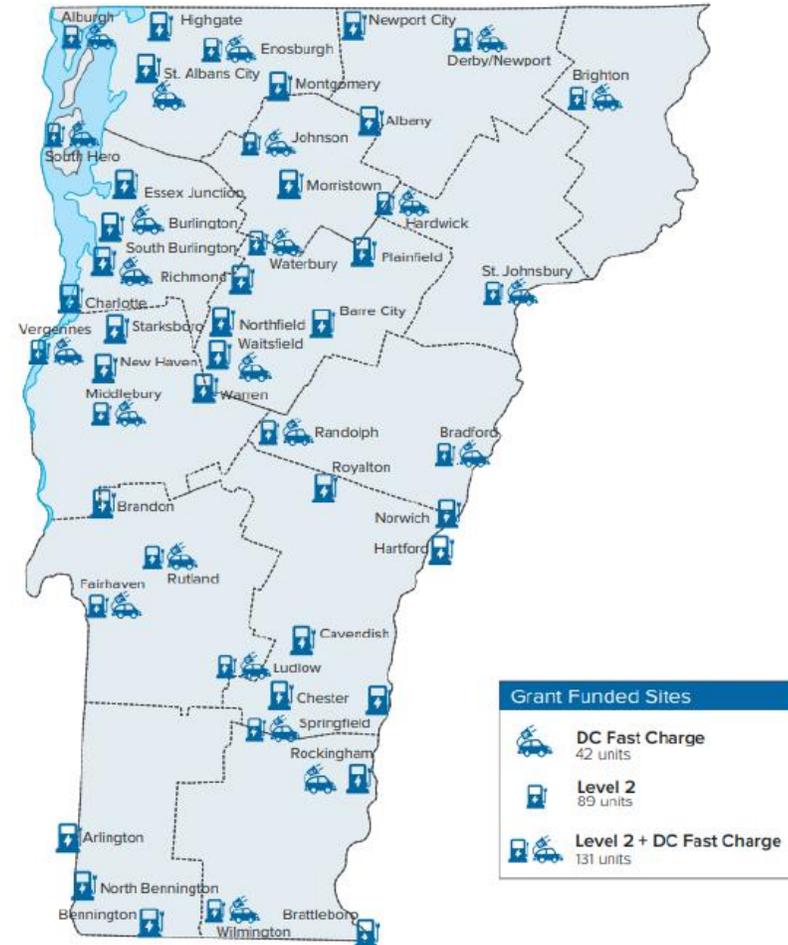
REDUCE SOFT COSTS

- **Allow permit exemptions** or ZA review/don't require planning commission or zoning board review
- Waive local permit fees

Statewide EV Charging Investments

Public Investments in Vermont

- 2014 DHCD & DEC launch Electric Vehicle Supply Equipment (EVSE) Program with \$200k
- 2017 Volkswagen Settlement, \$2.8 million
- 2019 ~ \$1 million for 75 Level 2 + 5 DC Fast Chargers
- 2020 \$1.7 million to Blink for 11 locations
- 2021 \$750k to Norwich Technologies for 6 locations
- 2022 \$1 million to residential charging for multiunit housing



Department of Housing and Community Development: [Interactive map](#)

ACCD Community Charging

\$10M



PROGRAM	MULTIUNIT RESIDENTIAL	WORKPLACES	COMMUNITY ATTRACTIONS
ELIGIBILITY	3 or more units priority for <20	Priority for employers with <100 employees	public parking
EQUIPMENT	Level 1, Level 2	Level 1, Level 2	Level 1, Level 2, DCFC
TOTAL FUNDS	\$3M	\$2M	\$2M

<https://accd.vermont.gov/community-development/funding-incentives/electric-vehicle-supply-equipment-evse-grant-program>

State Contract for EV Charging

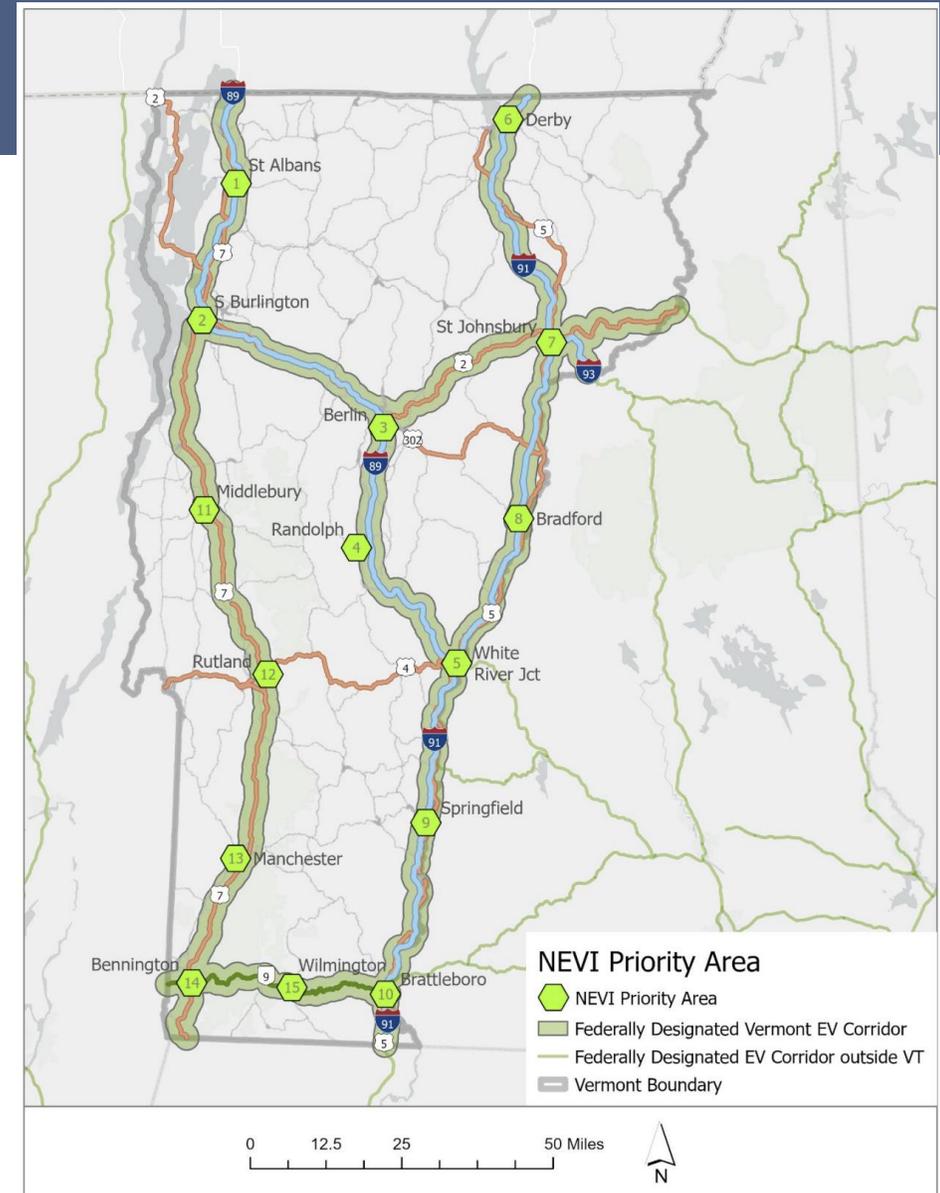
- Coordinate with BGS Energy Office on contracting for projects up to \$500,000
- Work with pre-qualified contractors
- <https://bgs.vermont.gov/content/electric-vehicle-ev-charging-stations>

Contract	supplier			Expiration
39049	Apex Solar Power LLC	Ben Sopczyk Chris Hall	518.309.2786	08/31/2023
38907	Zeco Systems Inc.	Drew Drummond	603.456.8479	08/31/2023

Statewide EV Charging Plan

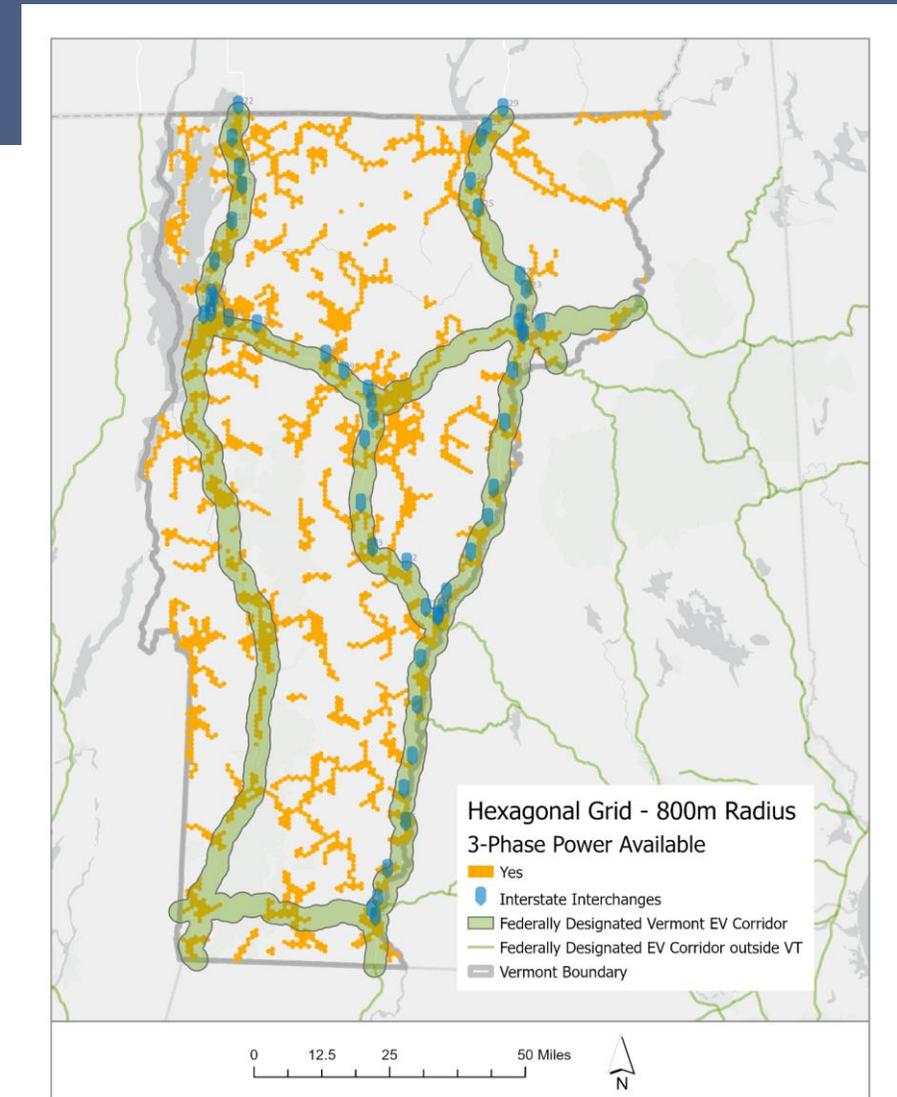
- VTrans has created a National Electric Vehicle Infrastructure (NEVI) website with information on the plan development
 - May webinar recording available
- Initial plan approved by Feds in September
- 15 priority areas identified to complete initial build-out of corridors
- Plan will be updated annually

<https://vtrans.vermont.gov/planning/nevi>



Statewide EV Charging Plan

- Legislative goal of fast charger within mile of every exit on the interstate and within 25 miles of the next fast charger
- Carbon Reduction Strategy and formula funds available for additional corridor and community charging buildout
- Federal competitive corridor and community charging grants and “gap-filling” grants to be announced by November 15th
- Coordination with local utility, regional planning council, and interagency workgroup to maximize opportunities and impacts



State of Vermont EV Incentives for Individuals

1. New EV Purchase or Lease – up to \$4,000

Tax Filing Status	Adjusted Gross Income (AGI) Limits	State Incentive Amount	
		Plug-in Hybrid Electric Vehicle	All-Electric Vehicle
Individual or Married filing separately	\$50,000 or less	\$3,000	\$4,000
	\$50,001 up to \$100,000	\$1,500	\$2,500
Married filing jointly	\$75,000 or less	\$3,000	\$4,000
	\$75,001 up to \$125,000	\$1,500	\$2,500

As of July 2022, Enhanced incentives comprised 60% of funds and 45% of incentives for new EVs

2. Used High Efficiency Vehicle – Income-eligible purchasers can receive 25% of the purchase price, up to \$5,000 through MileageSmart

State of Vermont Replace Your Ride

1. \$3,000 for a 10+ year old Internal Combustion Engine (ICE) vehicle when combined with the purchase/lease of a New or Used eligible EV
 - The replacement vehicle must have current inspection and be drivable
 - Income eligibility requirements apply
2. Additional clean transportation eligibility, including e-motorcycle, e-bike, bike purchases and shared mobility services launching soon (Nov. 9th)

Electric Utility Incentives

Contact your electric utility as you develop your plans. They may be able to offer one or more of the following:

- EV Incentives
- EV Charging Incentives
- Electric Lawn Care Equipment Incentives
- Expertise and site assessment support

Burlington Electric Department



Up to
\$2,900

Incentives for the purchase or lease of new or used electric vehicles.

[Learn More](#)

Green Mountain Power



Up to
\$2,500

Incentives for the purchase or lease of new or used all-electric or plug-in hybrid electric vehicles.

[Learn More](#)

Stowe Electric Department



Up to
\$1,250

Incentives for the purchase of new and used all-electric or plug-in hybrid electric vehicles.

[Learn More](#)

Vermont Electric Coop



Up to
\$750

Bill credit for the purchase of a new or used all-electric vehicle.

[Learn More](#)

VPPSA



Up to
\$1,400

Incentives for the purchase of a new or leased all-electric or plug-in hybrid vehicle **for customers of 11 municipal electric utilities.**

[Learn More](#)

<https://www.driveelectricvt.com/incentives>

Funding Opportunities for Medium- and Heavy-Duty Vehicles

- Vermont Diesel Emissions Reduction Financial Assistance Program
 - An annual opportunity administered by VT DEC
 - Class 5+ diesel-powered on-road vehicles are eligible
 - Offroad diesel-powered equipment may also qualify
 - Electrification projects have no EMY restrictions and can receive higher reimbursement percentages than other project types
 - Funding for the cost of the replacement vehicle/equipment and charger
 - <https://dec.vermont.gov/air-quality/mobile-sources/diesel-emissions/vt-diesel-grant>



Funding Opportunities for Medium- and Heavy-Duty Vehicles

- Volkswagen Environmental Mitigation Trust
 - \$18.7M total funds made available to Vermont
 - Class 4+ diesel-powered vehicles are eligible
 - Limited to replacements for vehicles with EMY 2009 or earlier
 - Electrification projects: school buses, transit buses, and medium- and heavy-duty truck replacements
 - Request for proposals for new projects will be posted in the coming months
 - <https://dec.vermont.gov/air-quality/vw>



Funding Opportunities for Medium- and Heavy-Duty Vehicles



- EPA Clean School Bus Program
 - Funded by the Bipartisan Infrastructure Law
 - Provides \$5 billion over 5 years to replace existing school buses with zero- and low- emission models
 - Almost \$1 billion will be awarded through the 2022 Clean School Bus Rebate program
 - Grant-based program for next round
 - <https://www.epa.gov/cleanschoolbus>
- Clean Heavy Duty Vehicles Funding
 - Funded by the Inflation Reduction Act
 - Will provide \$1 billion towards clean heavy-duty vehicles
 - Details to be determined

IRA Commercial Clean Vehicle Tax Credit

- The Inflation Reduction Act created new tax credit equal to the lesser of 30% of the price, or the incremental cost of such vehicle
- The incremental cost of any qualified commercial clean vehicle is an amount equal to the excess of the purchase price for such vehicle over such price of a comparable vehicle
- The amounts shall not exceed \$7,500 in the case of a vehicle which has a gross vehicle weight rating of less than 14,000 pounds, and \$40,000 in the case of a vehicle more than 14,000 pounds
- Tax exempt entities may qualify for direct payments, likely starting Jan 2024
- Details still getting finalized through IRS rulemaking and guidance

IRA EVSE Tax Credit

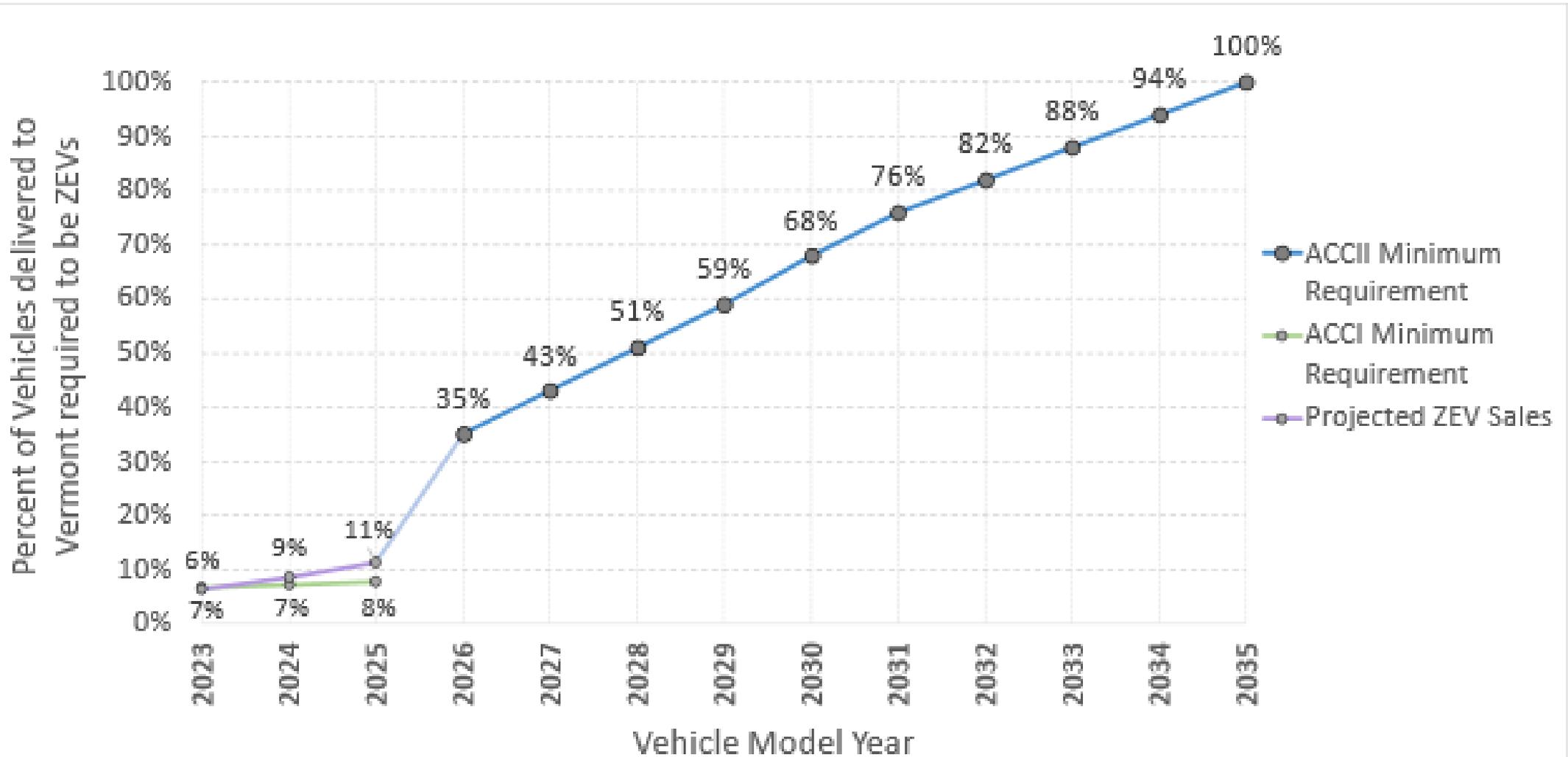
- For Commercial properties, including municipal fleet locations - 30% of the cost, not to exceed \$100,000
 - Tax exempt entities may get credit passed through by installer
- Consumers – 30%, up to \$1,000
- Bi-directional charging equipment included
- Eligible fueling equipment must be installed in locations that meet the following census tract requirements:
 - A population census tract where the poverty rate is at least 20%; or
 - Metropolitan and non-metropolitan area census tract where the median family income is less than 80% of the state medium family income level.
 - Eligible projects must also meet apprenticeships and prevailing wage requirements
 - Updated IRS rules in development

Low and Zero Emission Vehicles Rules



- The Agency of Natural Resources has been working to reduce harmful emissions from motor vehicles for more than 25 years.
- In 2022, ANR proposed new standards for auto manufacturers that reduce greenhouse gas and criteria air pollutant emissions from passenger cars, light-duty trucks, and medium- and heavy-duty vehicles and engines that are delivered for sale or placed in service in Vermont.
- The proposed amendments will also require auto manufacturers to deliver more low emission and electric vehicles to Vermont.
- The [Air Quality and Climate Division's webpage on proposed rules](#) had the most up to date info. on the rule-making process.

Automaker Milestones for EVs: light-duty passenger vehicles



Automaker Milestones for EVs: medium- and heavy-duty trucks



Class 2b-3

- 55% of new vehicle sales by 2035
- Larger pick-ups, vans, and delivery vehicles

Class 4-8

- 75% of new vehicle sales by 2035
- Box trucks, bucket trucks, buses, dump trucks

Class 7-8

- 40% of new vehicle sales by 2035
- Truck tractors

Resources



- DEV EV Charging Installation Guide
 - <https://www.driveelectricvt.com/charging-installation-guide>
- DEV Business and Fleet Incentives
 - <https://www.driveelectricvt.com/for-businesses>
- DEV Federal EV Tax Credits
 - <https://www.driveelectricvt.com/incentives/federal-incentives>



- Transportation Services and Tools
 - <https://www.encyvermont.com/products-technologies/transportation-efficiency>



- Vermont Clean Cities Coalition Fleet Resources
 - <https://vtccc.w3.uvm.edu/>

Questions and Discussion

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